NATIONAL DRUG FILE (NDF)

TECHNICAL MANUAL

Version 4.0
October 1998

(Revised April 2003)

Department of Veterans Affairs
V*IST***A** System Design & Development

Revision History

Any changes subsequent to the initial release of this manual are listed below. The users should update the manual with the pages listed under the Revised Pages column.

Date	Revised Pages	Patch Number	Description
04/03	Title Page, i, 15	PSN*4*20	-Changed the RD access on several files.
04/03	Title Page, i, 6	PSN*4*68	-Added the PSNPPIO routine to the list of routines.
02/03	Title Page, i-iv, 4a-4d, 6	PSN*4*62	-Replaced the Title Page, Revision History Page, and Table of Contents. -Added the Patient Medication Information (PMI) Sheet enhancement files and printer set-up. -Added print routine to the list of routines.
10/02	Title Page, i-iv, 12, 12a, 12b	PSN*4*64	-Replaced the Title Page (and associated blank page) and the Revision History Page (and associated blank page). -Added page numbers to the Revision History Pages and Table of Contents Pages. - Updated the Electronic MailMan Messages for Drugs Unmatched from the National Drug File.
10/02	Title Page 10, 10a, 10b, 11, 12, 12a, 12b	PSN*4*58	- Replaced the Title Page (and associated blank page) and the Revision History page (and associated blank page after it.) - Updated the Electronic MailMan Messages for Data Update for NDF, Updated Interactions, and Drugs Unmatched from National Drug File. This included new screen captures and required the addition of new pages.
09/01	Title Page 10-12	PSN*4*53	- Replaced the Title Page (and associated blank page) and the Revision History page (and associated blank page after it.) - Added a new Electronic Mail Message for Updated Interactions and added new screen captures for the Electronic Mail Messages for Data Update and Drugs Unmatched from National Drug File.
02/00	6,7,9	PSN*4*22	Added a new option called *Inquire to National Files.*
10/98			Original Released Technical Manual.

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Introduction

The National Drug File (NDF) V. 4.0 software module provides standardization of the local drug files in all Department of Veterans Affairs Medical Centers (VAMCs). Standardization includes the adoption of new drug nomenclature and drug classification, and links the local drug file entries to data in the National Drug files.

For drugs approved by the Food and Drug Administration (FDA), VAMCs have access to information concerning dosage form, strength and unit; package size and type; manufacturer's trade name; and National Drug Code (NDC). The NDF software lays the foundation for sharing prescription information among VAMCs.

The NATIONAL DRUG file (#50.6) has been redesigned from a file seven multiples deep to a new file structure of four separate files. The new files are the VA PRODUCT file (#50.68), the NDC/UPN file (#50.67), the VA DISPENSE UNIT file (#50.64), and File #50.6, which is now the VA GENERIC file.

With this version of NDF, the new design of the NATIONAL DRUG file (#50.6) will lay the foundation for timely data releases by Pharmacy Benefits Management (PBM) personnel to field facilities using the NDF Management System. As new drug products are released, this information can be quickly sent to facilities. Pharmacy end users will be able to match (classify) a greater percentage of their local drug files for new products. Update/delivery of data will be controlled by PBM personnel. Frequent updating of NDF will be possible with minimal time for installation and downtime.

In addition to the redesign of NATIONAL DRUG file (#50.6), Version 4.0 will provide the following enhancements:

- Addition of new fields to NDF, such as National Formulary and restriction indicators.
- Lay foundation for interfaces to other Commercial Off The Shelf (COTS) software to update NDF fields for new/revised drug information.
- Update current NDF with new/revised product information.
- Creation of an Application Programmer's Interface (API) to accommodate all existing VISTA software Database Integration Agreements (DBIAs) with NDF.
- A clean-up of associated files, such as DRUG MANUFACTURER (#55.95), DRUG UNITS (#50.607), etc.
- Incorporation of approved enhancement requests by Pharmacy/Information Resources Management (IRM) end users.

Related Manuals

National Drug File V. 4.0 Release Notes
National Drug File V. 4.0 Installation Guide
National Drug File V. 4.0 User Manual

Icons

Icons used to highlight key points in this manual are defined as follows:

 Indicates the user should take note of the information.

Implementation and Maintenance

The VA Drug Classification System

The Department of Veterans Affairs Drug Classification system was developed to provide a systematic management approach to the classification of medications, including investigational and over-the counter drugs, prosthetic items, and expendable supplies. The system was designed to do the following:

- Support the inpatient and outpatient pharmacy activities;
- Facilitate the identification of drug-drug, drug-allergy, drug-lab, and drug-food interactions;
- Uphold the requirements for inventory accountability; substantiate and improve all patient medication-related activity;
- Provide an improved database to assist the health care provider;
- Provide a coordinated method of database communication for VA management;
- Facilitate the monitoring of investigational drugs; and
- Facilitate the control of prosthetic and supply items.

Each five-character alpha-numeric code specifies a broad classification and a specific type of product. The first two characters are letters and form the mnemonic for the major classification (e.g., AM for antimicrobials). Characters 3 through 5 are numbers and form the basis for subclassification. For example, the classification system for the penicillins is as follows:

AM000 ANTIMICROBIALS
AM050 Penicillins
AM051 Penicillin-G Related Penicillins
AM052 Penicillins, Amino Derivatives
AM053 Penicillinase-Resistant Penicillins
AM054 Extended spectrum Penicillins

The VA Drug Classification system classifies drug products, not generic ingredients. Drug products with local effects are classified by route of administration (e.g., dermatological, ophthalmic). If a product is not classified by route of administration, in most cases, it is classified under a specific chemical or pharmacological classification (e.g., beta-blockers, cephalosporins). If a product is not classified by route of administration, or chemical or pharmacological subclassification, it may be classified under a therapeutic category (e.g., antilipemic agents, antiparkinson agents).

Most combination products are found in the “other” subclassification under each major classification unless a specific subcategory for combination

products has been added or a descriptive comment indicates inclusion elsewhere. In addition, products which are not adequately described by a minor category or subcategory within the major classification are classified as "other" (e.g., metronidazole and vancomycin are classified as "Anti-Infectives, Other").

Resource Requirements

The following resources are required for the National Drug File software package:

Routines

PSN* routines	approx. 4636 bytes

Implementation Requirements

There are no configurable site parameters involved in the implementation of this product. This module will not be distributed to field facilities. This module will only be installed on the system where the master National Drug files reside.

System Configuration

There are no site-specific parameters associated with NDF.

Assigning Keys, Menus, and Options

The installer must enter users into the test and production accounts, assigning the PSNMGR option as the primary menu option. The PSNMGR key must be assigned to the package coordinator and/or their designee. This key unlocks the *Allow Unmatched Drugs To Be Classed* [PSNSTCL] and *Local Formulary Report* [PSNFRMLY] menu options. Only users having this key will see these options on their menus.

Patient Medication Information (PMI) Sheet Redesign Enhancement

The PMI Sheet redesign is an enhancement to the NDF package V. 4.0. These enhancements support a new contract data source for Patient Medication Information that includes a new file structure.

Files

These files are part of a proprietary vendor database and are not part of the NDF core package. Patches PSN*4*67 and PSN*4*62 must be installed for the system to have access to these files.

File Number	File Name	Description
50.621	PMI-ENGLISH	This file contains the data provided by the vendor for PMIS monograph text entries in the English language. This file cannot be edited using FileMan options.
50.622	PMI-SPANISH	This file contains the data provided by the vendor for PMIS monograph text entries in the Spanish language. This file cannot be edited using FileMan options.
50.623	PMI-MAP-ENGLISH	This file contains data provided by the vendor required to map GCNSEQNO numbers to PMI-ENGLISH file (#50.621) monograph entries. This file cannot be edited using FileMan options.
50.624	PMI-MAP-SPANISH	This file contains data provided by the vendor required to map GCNSEQNO numbers to PMI-SPANISH file (#50.622) monograph entries. This file cannot be edited using FileMan options.
50.625	WARNING LABEL-ENGLISH	This file contains the data provided by the vendor for WARNING LABEL monograph text entries in the English language. This file cannot be edited using FileMan options.

File Number	File Name	Description
50.626	WARNING LABEL-SPANISH	This file contains the data provided by the vendor for WARNING LABEL monograph text entries in the Spanish language. This file cannot be edited using FileMan options.
50.627	WARNING LABEL MAP	This file contains the data provided by the vendor, required to map GCNSEQNO numbers to WARNING LABEL-ENGLISH file (#50.625) and WARNING LABEL-SPANISH file (#50.626) monograph entries. This file cannot be edited using FileMan options.

Set Up of the Patient Medication Information (PMI) Sheet Printers

The installer must enter information for each printer that will be used to print PMI Sheets. This information controls the bolding of the sub-headings on the sheets.

Hardware Set Up

The printer must be physically connected to the network and then defined in the DEVICE (#3.5) and TERMINAL TYPE (#3.2) files.

Software Set Up

The type of printer will determine the next step. Please refer to the User's Manual for each printer to establish the correct escape sequences for turning bolding on and off. These escape sequences are input to the following fields in the TERMINAL TYPE (#3.2) file:

HIGH INTENSITY (BOLD) (#27) field
NORMAL INTENSITY (RESET) (#29) field

If these fields do not contain escape sequences, then the bolding of the sub-headings on the PMI Sheets will not be displayed.

Example Set Up

The following is a set up example that was used in the development process. This example is provided to guide the user in this set up. Please note that it is only an example and may not hold true in all cases.

Example: Hewlett Packard or LexMark Example Set Up

From the printer technical manual the following are the escape sequences:

Bold On: $C(27)_"(s3B"
Bold Off: $C(27)_"(s0B"

In the TERMINAL TYPE (#3.2) file:

To turn the bold on in the HIGH INTENSITY (BOLD) field (#27):

```
HIGH INTENSITY (BOLD) = $C(27)_"(s3B"
```

To turn the bold off in the NORMAL INTENSITY (RESET) field (#29):

```
NORMAL INTENSITY (RESET) = $C(27)_"(s0B"
```

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Files

The NATIONAL DRUG file (#50.6) has been redesigned from a file seven multiples deep to a new file structure of four separate files. The new files are the VA PRODUCT file (#50.68), the NDC/UPN file (#50.67), the VA DISPENSE UNIT file (#50.64), and File #50.6, which is now the VA GENERIC file.

The files required to run the NDF software are listed below.

FILE #	NAME	UP DATE DD	SEND SEC. CODE	DATA COMES W/FILE	SITE DATA	RSLV PTS	USER OVER RIDE
50.416	DRUG INGREDIENT	YES	YES	YES	OVER	NO	NO
50.6	VA GENERIC	YES	YES	NO			
50.605	VA DRUG CLASS	YES	YES	YES	OVER	NO	NO
50.606	DOSAGE FORM	YES	YES	YES	OVER	NO	NO
Partial DD: subDD 50.606	fld: .01						
50.607	DRUG UNITS	YES	YES	YES	OVER	NO	NO
50.608	PACKAGE TYPE	YES	YES	YES	OVER	NO	NO
50.609	PACKAGE SIZE	YES	YES	YES	OVER	NO	NO
50.612	NATIONAL DRUG TRANSLATION	YES	YES	NO			
50.64	VA DISPENSE UNIT	YES	YES	NO	OVER	NO	NO
50.67	NDC/UPN	YES	YES	NO			
50.68	VA PRODUCT	YES	YES	NO			
51.2	MEDICATION ROUTES	YES	YES	NO	MERG	NO	YES
Partial DD: subDD 51.2	fld: .01						
55.95	DRUG MANUFACTURER	YES	YES	YES	OVER	NO	NO
56	DRUG INTERACTION	YES	YES	NO	OVER	NO	NO
59.7	PHARMACY SYSTEM	YES	YES	NO			
Partial DD: subDD 59.7	fld: 10						
	fld: 10.1						
	fld: 10.2						
	fld: 11						
	fld: 12						

Templates

Sort	File
PSNFRMSRT	50

Print	File
PSNFRMPRT	50
PSNHEAD	50
PSNLDG1	50
PSNPRINT	50.605
PSNRPT4	50
PSNACTION	56

Routines

The following is a list of routines you will see for NDF when you load the new routine set. The first line of each routine contains a brief description of the general function of the routine. Use the Kernel option XU FIRST LINE PRINT (*First Line Routine Print*) to print a list of just the first line of each PSN* routine.

PSN4P4	PSN4POST	PSN4PRE	PSNACT	PSNAPIS
PSNAUTO	PSNBLD	PSNCLPR	PSNCLS	PSNCMOP
PSNCOMP	PSNDDI1	PSNDEA	PSNDEX	PSNDINT
PSNDRUG	PSNEXC	PSNFRMLY	PSNHEADR	PSNHELP
PSNHELP1	PSNHFRM	PSNHFRM1	PSNHIT	PSNLDG
PSNLOOK	PSNMCLS	PSNMRG	PSNNDC	PSNNDC1
PSNNFL	PSNNFL1	PSNNGR	PSNOCLS	PSNONDF
PSNOUT	PSNPFN	PSNPPIO	PSNPPIP	PSNPPIP1
PSNPRE	PSNPRE1	PSNPSS	PSNPST	PSNQA
PSNRPT	PSNRPT2	PSNRPT3	PSNSTCK	PSNSTCL
PSNSUPLY	PSNTER	PSNUPN	PSNVAGN	PSNVER
PSNVFY	PSNVIEW	PSNXREF		

58 Routines

Exported Options

The National Drug File [PSNMGR] menu, assigned to all users, contains two locked options-—*Allow Unmatched Drugs to Be Classed* [PSNSTCL] and *Formulary Report* [[SNFRMLY]. These options are unlocked by the PSNMGR key. This key must be assigned to the package coordinator or his/her designee. Only users having this key will see these options on their menu.

The following are the options exported with NDF version 4.0:

National Drug File V. 4.0 Menu

REMA Rematch/Match Single Drugs [PSNDRUG]
VER Verify Matches [PSNVFY]
SVER Verify Single Match [PSNVER]
MERG Merge National Drug File Data Into Local File [PSNMRG]
AUTO Automatic Match of Unmatched Drugs [PSNAUTO]
CLAS Allow Unmatched Drugs to be Classed [PSNSTCL]
[Locked: PSNMGR]
RPRT National Drug File Reports [PSNSUBM]
LDF Local Drug File Report [PSNLDG]
VAGN Report of VA Generic Names from National Drug [PSNVAGN]
ATMP Report of Attempted Match Drugs [PSNEXC]
PROD VA Product Names Matched Report [PSNPFN]
NOCL Local Drugs with No VA Drug Class Report [PSNOCLS]
CLVA VA Drug Classification [PSNCLS]
DFL NDF Info from Your Local Drug File [PSNRPT]
SUPL Supply (XA000) VA Class Report [PSNSUPLY]
MANC Manually Classed Drugs Report [PSNMCLS]
NMAT Local Drugs with NO Match to NDF Report [PSNONDF]
*LOCF Local Formulary Report [PSNFRMLY] [Locked: PSNMGR]
NATF National Formulary Report [PSNNFL]
DDIN Drug-Drug Interaction Report [PSNTER]
CMOP VA Products Marked for CMOP Transmission [PSNCMOP]
PNCL VA Product Names By Class Report [PSNCLPR]
INQ Inquiry Options [PSNQUER]
LINQ Inquire to Local Drug File [PSNVIEW]
**PNIN Inquire to VA Product Info For Local Drug [PSNLOOK]
NDCU NDC/UPN Inquiry [PSNUPN]
NAT Inquire to National Files [PSNACT]
PMIS Print a PMI Sheet [PSNPMIS]

* Formerly *Formulary Report*
** Formerly *Lookup National Drug Info in Local File.*

Archiving and Purging

The NDF software contains no archiving or purging capabilities. It is recommended that National Drug File remain online.

Callable Routines

The National Drug File contains one callable routine at the present time. This routine, PSNNGR, is used by the Allergy Tracking System software package. The routine is the actual point of entry.

This routine is to be used in conjunction with the allergies package. It expects an input of PSNDA=internal number in File 50.6 (VA GENERIC file). The routine returns ^TMP("PSN",$J,IFN)=Primary Ingredient. The IFN is the Internal number from File #50.416 (DRUG INGREDIENTS file) of Primary Ingredient. If PSNDA doesn't exist, PSNID and ^TMP("PSN",$J) are killed. The variables X,J,K,PSNPN are used and are killed before exiting.

External Interfaces

The National Drug File V. 4.0 relies (minimum) on the following external packages. This software is not included in this package and must be installed before this version of NDF is completely functional.

Package	Minimum Version Needed
VA FileMan	21.0
Kernel	8.0
MailMan	7.1
Pharmacy Data Management	1.0
National Drug File	3.18
Adverse Reaction Tracking	4.0
Consolidated Mail Outpatient Pharmacy	2.0
Decision Support System	3.0
Drug Accountability	3.0
Immunology Case Registry	2.1
Inpatient Medications	4.5 or greater
Order Entry/Results Reporting	2.5 or greater
Outpatient Pharmacy	6.0 or greater

The build will check to make sure that the site has the following patches installed:

Package	Patch Needed
Adverse Reaction Tracking V. 4.0	GMRA*4*13
Consolidated Mail Outpatient Pharmacy V. 2.0	PSX*2*18
Decision Support System V. 3.0	ECX*3*10
Drug Accountability V. 3.0	PSA*3*8
Immunology Case Registry V. 2.1	IMR*2.1*3
Inpatient Medications V. 4.5	PSJ*4.5*59
Inpatient Medications V. 5.0	PSJ*5*11, PSJ*5*14
Order Entry/Results Reporting V. 3.0	OR*3*33 *[CPRS sites only]*
Outpatient Pharmacy V. 6.0	PSO*6*173
Outpatient Pharmacy V. 7.0	PSO*7*10, PSO*7*11
Pharmacy Data Management V. 1.0	PSS*1*29

External Relations

Data Base Integration Agreements (DBIAs)

National Drug File (NDF) V. 4.0 has Data Base Integration Agreements (DBIAs) with the packages listed above. For complete information regarding the DBIAs for NDF V. 4.0, please refer to the *DBA* [DBA] menu option on FORUM and then the *Integration Agreement Menu* [DBA IA ISC].

Internal Relations

All of the National Drug File software package options have been designed to stand-alone.

Package-Wide Variables

The National Drug File routines do not use package-wide variables.

Electronic MailMan Messages

When the data patches have been sent, you and holder(s) of the PSNMGR key will receive Mailman messages similar to the following examples.

The first MailMan message lists new VA products that have been added to the National Drug File, the VA products for which the National Formulary Indicator is changed, and the active VA products that are unmarked for CMOP. The second MailMan message lists the interactions that have been added, edited, or inactivated in the National Drug File. The third MailMan message contains a list of drugs unmatched from the National Drug File.

MailMan Message 1: Data Update for NDF

```
Subj: DATA UPDATE FOR NDF  [#112345] 03 May 02 11:31  420 lines
From: NDF MANAGER  In 'IN' basket.   Page 1
---------------------------------------------------------------------

The following VA Products have been added to the National
Drug File.  You may wish to review, then match or unmatch
local drug file entries based on this updated information.

   ACCU-CHEK ACTIVE (GLUCOSE) TEST STRIP
    (CMOP - XZ355)           (DISPENSE UNIT - EA)
     050924-0681-01   050924-0475-50
   BOSENTAN 125MG TAB
    (CMOP - B0477)           (DISPENSE UNIT - TAB)
     066215-0102-06
   CHONDROITIN NA 40MG/HYALURONATE 30MG/ML INJ,OPH,SYRINGE,0.75ML
    (CMOP - C1041)           (DISPENSE UNIT - SYRINGE)
     008065-1839-75
   DIGOXIN (LANOXIN) 0.125MG TAB
    (CMOP - D0080)           (DISPENSE UNIT - TAB)
     000173-0242-75   000173-0242-30   000173-0242-55
   ESTRADIOL 25MCG TAB,VAG,APPLICATOR
    (CMOP - E0335)           (DISPENSE UNIT - EA)
     000009-5173-03   000009-5173-02   000009-5173-04
   FERROUS SO4 325MG TAB,EC,UD
    (CMOP - F0297)           (DISPENSE UNIT - TAB)
     000574-0608-11
   GLYCERIN 3%/SODIUM CL 0.75% SOLN,NASAL
    (CMOP - G0220)           (DISPENSE UNIT - ML)
     050930-0280-50   050930-0280-32
   HYDROGEN PEROXIDE 1.5% RINSE,ORAL
    (CMOP - H0408)           (DISPENSE UNIT - ML)
     010310-3186-00   038341-0800-80   038341-0801-60
   IBRITUMOMAB TIUXETAN IN-111 INJ,KIT
    (CMOP - I0336)           (DISPENSE UNIT - KIT)
     064406-0104-04
```

----------report continues----------

MailMan Message 1: Data Update for NDF (continued)

```
The National Formulary Indicator has changed for the following
VA Products.  The National Formulary Indicator will automatically
be changed in your local DRUG file (#50).  Please review the
VISN and Local Formulary designations of these products and
make appropriate changes.

FORMULARY ITEMS
   ACCU-CHEK ACTIVE (GLUCOSE) TEST STRIP
   AL OH 500MG/MG OH 400MG/SIMETHICONE 40MG/5ML LIQUID(ML)
   ALBUTEROL SO4 0.5% SOLN,INHL,5ML
   CLARITHROMYCIN 500MG TAB,SA,PKT,14
   EFAVIRENZ 600MG TAB
   ENOXAPARIN 120MG/0.8ML INJ,SYRINGE,0.8ML
   FOLIC ACID 1MG TAB,UD
   GUAIFENESIN 100MG/5ML (AF) LIQUID
   HEPATITIS A 720 EL.U/HEPATITIS B 20MCG/1ML VACCINE INJ
   HEPATITIS A 720 EL.U/HEPATITIS B 20MCG/ML VACCINE INJ,SYR,1ML

NON-FORMULARY ITEMS
   OPIUM 10% TINCTURE
   PROCAINAMIDE HCL 1000MG TAB,SA
   PROCAINAMIDE HCL 250MG CAP
   PROCAINAMIDE HCL 250MG TAB

The following active VA Products are no longer marked for CMOP.
All local drug file entries matched to these VA Products will
be UNMARKED for CMOP.  In order to have these entries dispensed
by CMOP any local DRUG file (#50) entries matched to these
products must be re-matched to another VA product that is actively
marked for CMOP dispensing.

   ANTI-THYMOCYTE GLOBULIN (RABBIT) 25MG/VIL INJ    A1108
   BANDAGE,PROFORE FOUR LAYER SYSTEM,S-N #66000016    XX199
   ISOTRETINOIN 10MG CAP    I0085
   ISOTRETINOIN 20MG CAP    I0086
   ISOTRETINOIN 40MG CAP    I0087


The National Formulary Restriction has changed for the following VA Products.

   MONTELUKAST NA 10MG TAB
    Refer to leukotriene inhibitor criteria for use.
   MONTELUKAST NA 10MG TAB,UD
    Refer to leukotriene inhibitor criteria for use.
   PROCAINAMIDE HCL(PROCANBID)500MG TAB,SA
    Refer to Procainamide drug monitoring recommendations.
```

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MailMan Message 2: Updated Interactions

```
Subj: UPDATED INTERACTIONS  [#112242] 31 Jul 01 10:30  17 lines
From: NDF MANAGER  In 'IN' basket.   Page 1
---------------------------------------------------------------------------
The following interactions in National Drug File (NDF) have been added,
edited or inactivated.  These changes are the result of review and
recommendations from the NDF support group.

ADDED INTERACTIONS

   ALPRAZOLAM/NEFAZODONE                                Significant
   BUSPIRONE/NEFAZODONE                                 Significant
   NEFAZODONE/TRIAZOLAM                                 Significant

EDITED INTERACTIONS

   NONE

INACTIVATED INTERACTIONS

   NONE
```

MailMan Message 3: Drugs Unmatched from National Drug File

```
Subj: DRUGS UNMATCHED FROM NATIONAL DRUG FILE  [#1970] 03 Apr 02 13:55
137 lines
From: NDF MANAGER  In 'IN' basket.   Page 1
-------------------------------------------------------------------------------

The following active entries in your DRUG file (#50) have been
unmatched from the National Drug File (NDF).  The VA Product
name and CMOP ID corresponding to the unmatched local drug file
name are listed on the indented line beneath each entry. An
Inactivation Date may be listed for entries when this reason
applies. Until you rematch these entries to NDF, they will not
transmit to CMOP and drug-drug interaction checks will not check
for these products.  It is critical that you rematch these
products immediately.  You may also need to match a new
orderable item.  Any possible dosages and local possible
dosages for these unmatched products have been deleted.
Therefore, the dosages for each unmatched product should
be reviewed after the rematch or recreated if the product
can not be rematched to a VA Product through the NDF
matching process.

DRUG                                                    IEN       INACTIVATION
                                                                       DATE
CYCLOPHOSPHAMIDE 50MG C.T.                               6
  (CMOP C0332)     CYCLOPHOSPHAMIDE 50MG TAB                        3/4/2002
    STRENGTH: 50   UNITS: MG
    POSSIBLE DOSES
    DISP UNITS/DOSE     DOSE    PACKAGE   BCMA UNITS/DOSE
    1                   50        IO
    2                   100       IO
HYDROMORPHONE 2MG C.T.                                   301
  (CMOP H0297)     HYDROMORPHONE HCL 2MG TAB
    STRENGTH: 2   UNITS: MG
    POSSIBLE DOSES
    DISP UNITS/DOSE     DOSE    PACKAGE   BCMA UNITS/DOSE
    1                   2         O
    2                   4         IO
    LOCAL POSSIBLE DOSES
    DOSE    PACKAGE   BCMA UNITS/DOSE
    TEST       O
METHOCARBAMOL 750MG TAB                                  132
  (CMOP M0055)     METHOCARBAMOL 750MG TAB
    STRENGTH: 500   UNITS: MG
    POSSIBLE DOSES
    DISP UNITS/DOSE     DOSE    PACKAGE   BCMA UNITS/DOSE
    1                   500       IO
    2                   1000      IO
    3                   1500      IO
    LOCAL POSSIBLE DOSES
    DOSE    PACKAGE   BCMA UNITS/DOSE

----------------------------------------report continues----------------------------------------
```

MailMan Message 3: Drugs Unmatched from National Drug File (continued)

```
The following investigational entries in your DRUG file (#50) have been
unmatched from the National Drug File (NDF).  The VA Product
name and CMOP ID corresponding to the unmatched local drug file
name are listed on the indented line beneath each entry. An
Inactivation Date may be listed for entries when this reason
applies. Until you rematch these entries to NDF, they will not
transmit to CMOP and drug-drug interaction checks will not check
for these products.  It is critical that you rematch these
products immediately.  You may also need to match a new
orderable item.  Any possible dosages and local possible
dosages for these unmatched products have been deleted.
Therefore, the dosages for each unmatched product should
be reviewed after the rematch or recreated if the product
can not be rematched to a VA Product through the NDF
matching process.

DRUG                                                    IEN       INACTIVATION
                                                                       DATE
CHLORAMBUCIL 2MG TAB.                                    5
  (CMOP C0551)     CHLORAMBUCIL 2MG TAB
    STRENGTH: 2   UNITS: MG
    POSSIBLE DOSES
    DISP UNITS/DOSE     DOSE    PACKAGE   BCMA UNITS/DOSE
    1                   2         IO
    2                   4         IO
    3                   6         IO
NITROGLYCERIN 0.3MG S.L.T.                               245
  (CMOP N0056)     NITROGLYCERIN 0.3MG TAB,SUBLINGUAL
    STRENGTH: .3   UNITS: MG
    POSSIBLE DOSES
    DISP UNITS/DOSE     DOSE    PACKAGE   BCMA UNITS/DOSE
    1                   .3        IO
    2                   .6        IO
    LOCAL POSSIBLE DOSES
    DOSE    PACKAGE   BCMA UNITS/DOSE
    1 PATCH    I
TEST DRUG IV                                             44
  (CMOP N0147)     NIZATIDINE 150MG CAP
    STRENGTH: 150   UNITS: MG
    POSSIBLE DOSES
    DISP UNITS/DOSE     DOSE    PACKAGE   BCMA UNITS/DOSE
    1                   150       IO
    2                   300       IO
    LOCAL POSSIBLE DOSES
    DOSE    PACKAGE   BCMA UNITS/DOSE
```

----------report continues----------

MailMan Message 3: Drugs Unmatched from National Drug File (continued)

```
The following inactive entries in your DRUG file (#50) have been
unmatched from the National Drug File (NDF).  The VA Product
name and CMOP ID corresponding to the unmatched local drug file
name are listed on the indented line beneath each entry. An
Inactivation Date may be listed for entries when this reason
applies. Until you rematch these entries to NDF, they will not
transmit to CMOP and drug-drug interaction checks will not check
for these products.  It is critical that you rematch these
products immediately.  You may also need to match a new
orderable item.  Any possible dosages and local possible
dosages for these unmatched products have been deleted.
Therefore, the dosages for each unmatched product should
be reviewed after the rematch or recreated if the product
can not be rematched to a VA Product through the NDF
matching process.

 DRUG                                                    IEN       INACTIVATION
                                                                       DATE

AZATHIOPRINE 50MG TAB                                    1          2/2/1994
  (CMOP A0478)     AZATHIOPRINE 50MG TAB
    STRENGTH: 50   UNITS: MG
    POSSIBLE DOSES
    DISP UNITS/DOSE     DOSE    PACKAGE   BCMA UNITS/DOSE
    1                   50        IO
    2                   100       IO          3
    LOCAL POSSIBLE DOSES
    DOSE    PACKAGE   BCMA UNITS/DOSE
    DOSE       IO       2
BUSULFAN 2MG TAB                                         4          3/4/2002
  (CMOP B0232)     BUSULFAN 2MG TAB
    STRENGTH: 2   UNITS: MG
    POSSIBLE DOSES
    DISP UNITS/DOSE     DOSE    PACKAGE   BCMA UNITS/DOSE
    1                   2         IO
    2                   4         IO
CLOFIBRATE 500MG CAP                                     189        3/4/2002
  (CMOP C0284)     CLOFIBRATE 500MG CAP
    STRENGTH: 500   UNITS: MG
    POSSIBLE DOSES
    DISP UNITS/DOSE     DOSE    PACKAGE   BCMA UNITS/DOSE
    1                   500       IO
    2                   1000      IO
    LOCAL POSSIBLE DOSES
    DOSE    PACKAGE   BCMA UNITS/DOSE
    TEST       IO       2
```

Software Product Security

Security Management

National Drug File V. 4.0 does not impose any additional legal requirements on the user, nor does it relieve the user of any legal requirements.

PSNMGR Key

The PSNMGR key is assigned to the package coordinator or his/her designee. This key unlocks the *Allow Unmatched Drugs to be Classed* [PSNSTCL] and the *Local Formulary Report* [PSNFRMLY] options. Only users having this key will see these options on their menu.

These menu options are locked because the first allows you to assign a VA classification to an unmatched or unmatchable drug in the local DRUG file (#50), and the second allows you to print a Hospital Formulary Report.

The NATIONAL DRUG CLASS field (Field 25 of File 50) cannot be edited through VA FileMan, so ***only*** designated holders of the PSNMGR key can directly alter this field. The field may be altered in one of the following ways:

If the drug is matched to the National Drug files, the field is edited through the matching process in the National Drug File software. This change is automatic and not under user control.

If the drug is not matched, the NATIONAL DRUG CLASS field may be edited through the menu option *Allow Unmatched Drugs To Be Classed*, accessible only to users with the PSNMGR key.

Precautions and Potential Problems

It is strongly recommended that the DRUG file (#50) and the NATIONAL DRUG TRANSLATION file (#50.612) be included in the facility's backup procedures on a periodic and systematic basis. It is important to back up these two files before the option, *Merge National Drug File Data Into Local File,* is executed. The Information Resources Management (IRM) staff must be advised before this option is executed to ensure that appropriate back up is done prior to execution.

File Security

File Numbers	File Names	DD	RD	WR	DEL	LAYGO
50.416	DRUG INGREDIENTS	@	@	@	@	@
50.6	VA GENERIC	@	Pp	@	@	@
50.605	VA DRUG CLASS	@	@	@	@	@
50.606	DOSAGE FORM	@		@	@	@
50.607	DRUG UNITS	@	@	@	@	@
50.608	PACKAGE TYPE	@	@	@	@	@
50.609	PACKAGE SIZE	@	@	@	@	@
50.612	NATIONAL DRUG TRANSLATION	@		@	@	@
50.64	VA DISPENSE UNIT	@	Pp	@	@	@
50.67	NDC/UPN	@	Pp	@	@	@
50.68	VA PRODUCT	@	Pp	@	@	@
51.2	MEDICATION ROUTES	@				
55.95	DRUG MANUFACTURER	@	@	@	@	@
56	DRUG INTERACTION	@				
59.7	PHARMACY SYSTEM	^	@	^	^	^

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Glossary

Automatic Match by NDC Matching	Pairing of a drug from the local DRUG file (#50) with a drug in the National Drug File with the same NDC number. This matching will be accomplished when the option *Automatic Match of Unmatched Drugs* is executed for the first time.
Active Drug	Drugs which contain no inactivation date in the INACTIVE DATE field (#100) local DRUG file (#50).
API	Application Programmer Interface.
DEA, SPECIAL HDLG Field	Field #3. A field in the local DRUG file (#50). It contains one or more codes representing special characteristics of a product.
DRUG File	See Local DRUG file.
DRUG INGREDIENTS File	File #50.416. A file that contains individual generic drugs which are components of various drug products.
Error	In the National Drug File (NDF) software, an error is an entry in the NATIONAL DRUG TRANSLATION file (#50.12) that does not have a match in the local DRUG file (#50).
FSN	Federal Stock Number. A unique identifying number assigned by the Federal Supply System to a product (drug, supply, food item, etc.) for ordering and accounting purposes. Synonymous with the National Stock Number (NSN). This is one of the fields in the local DRUG file (#50).

Local DRUG File (#50)	This file contains the local GENERIC NAME (#.01), INACTIVE DATE (#100), DEA, SPECIAL HDLG (#3), and NDC fields, as well as others. NDF software attempts to match products from this file with products in the VA GENERIC file (#50.6) and the VA PRODUCT file (#50.58).
Manually Classed Drug	A drug from the local DRUG file (#50) which could not be matched, but has been assigned a VA Drug Classification through the use of the *Allow Unmatched Drugs to Be Classed* menu option.
Manufacturer Code	The first portion of the NDC Number (the first 4-6 digits). Identifies the manufacturer of the product.
NATIONAL DRUG File (#50.6)	This file contains a list of available drug products. It includes specific information for each product, including trade name, NDC number, manufacturer, VA Drug Class code, dosage form, route of administration, strength, units, ingredients, ingredient strength and units, package code, package size, package type, VA Product Name, and VA generic name. NDF software attempts to match products from this file with products in the local DRUG file (#50).
National Drug Identifier	A unique, HL7 compatible code assigned to all products marked for CMOP transmission. This code is utilized to transmit VA Print name and dispense unit from **V*IST*A** to the vendor system.

NATIONAL DRUG File (#50.6)	This file contains a list of available drug products. It includes specific information for each product, including trade name, NDC number, manufacturer, VA Drug Class code, dosage form, route of administration, strength, units, ingredients, ingredient strength and units, package code, package size, package type, VA product name, and VA generic name. NDF software attempts to match products from this file with products in the local DRUG file (#50).
NATIONAL DRUG TRANSLATION File (#50.612)	A temporary file that is created by the NDF software. This file will contain information on drugs that have been matched, or for which a match was attempted.
NDC (NDC Number)	National Drug Code. A unique number assigned to a drug by the manufacturer for identification purposes. The NDC is in one of three formats: 4-4-2, 5-3-2, or 5-4-1. The first part is the manufacturer's code, the second part is the product number, and the last is the code for the package size and type. This is one of the fields in the local DRUG file (#50).
NDF	National Drug File. Refers to the National Drug File software.
Package Code	The last portion of the NDC number (the last two digits). This identifies the package type and size in which the product is supplied.
Package Size	The actual (physical) amount of a drug in the individual package (i.e., 5000 capsules per bottle).

Package Type	The physical container in which a drug is supplied (i.e., bottle, vial).
Product Code	The second portion of the NDC number (the second four digits) that identifies the specific drug.
PSNMGR	The name of the primary menu option and of the key that must be assigned to the pharmacy coordinator and supervisors using the National Drug File software.
Supply Item	A non-drug item entered into the GENERIC NAME field (# .01) of the local DRUG file (#50) that may be a prosthetic or expendable item such as ostomy supply, alcohol pads, syringes, bed pans, etc. identified by the code "S" in the DEA/SPECIAL HDLG field (#3) of the local DRUG file (#50).
Trade Name	This is the brand name. The name given to a generic product to distinguish it as one produced and sold by a specific manufacturer.
UPC	Universal Product Code. A unique number assigned to a product by a manufacturer commonly used for supply items. These may be found in the NDC/UPN file (#50.67).
VA Dispense Unit	The standardized unit assigned to a product when the product is marked for CMOP transmission.
VA DRUG CLASS File (#50.605)	This file contains the VA Drug Classification codes and their descriptions. Each product has one of these codes assigned to it and stored with it.

VA Generic Name	A name given to an item (drug, supply, etc. in the VA GENERIC file (#50.6)). It is this name which is matched with the entry in the GENERIC NAME (local generic name) field (#.01) of the local DRUG file (#50). This name does not contain strength, unit, or dosage form.
VA Print Name	The forty character name assigned as the name which prints on all prescription labels for products marked for CMOP transmission.
VA Product Name	The unique name assigned to each drug product in the National Drug File. This name comes from the VA PRODUCT file (#50.68) and includes strength, unit, and dosage form.
VISTA	Veterans Health Information Systems and Technology Architecture.

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